

FIG. 1

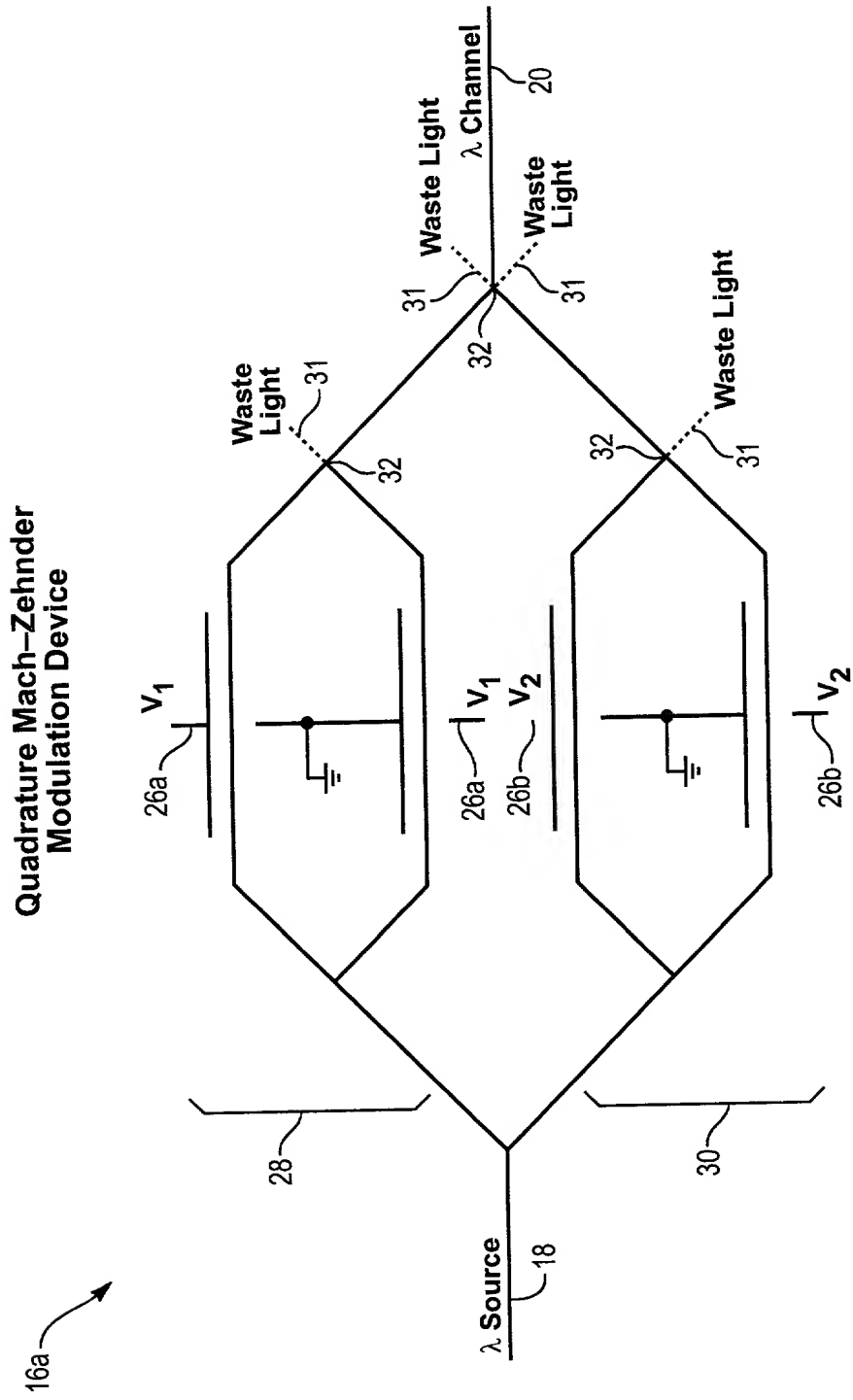


FIG. 2

Mach-Zehnder Device
Transfer Function

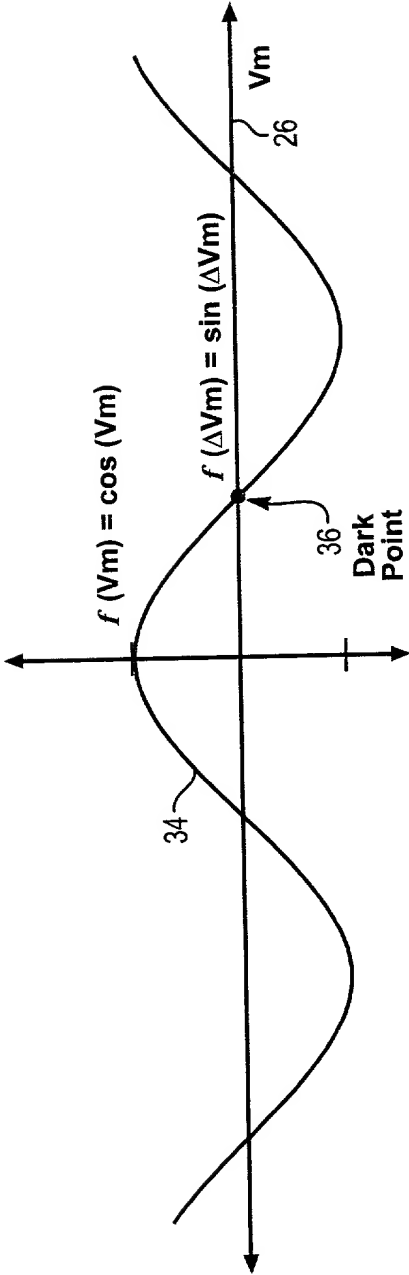


FIG. 3

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Modulation Synthesizer

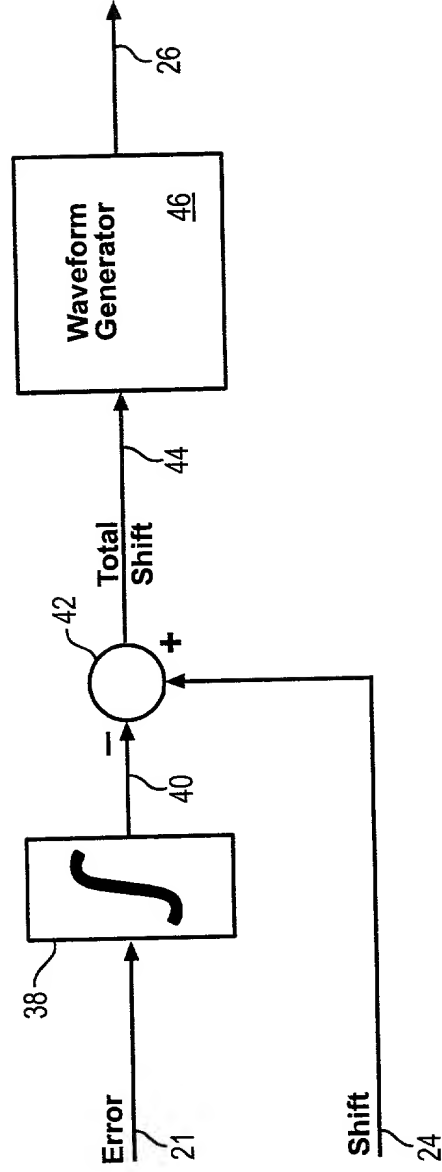


FIG. 4

12b

Quadrature Modulation Synthesizer (With On/Off Data Keying)

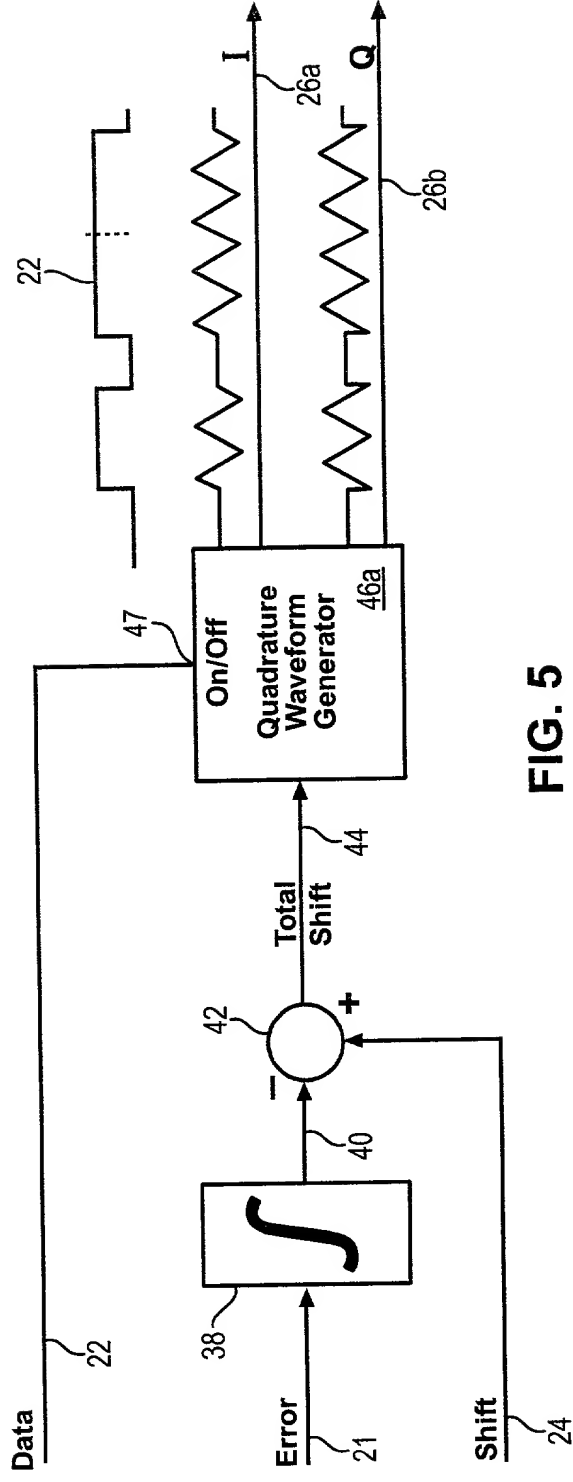


FIG. 5

Phase Modulation Device

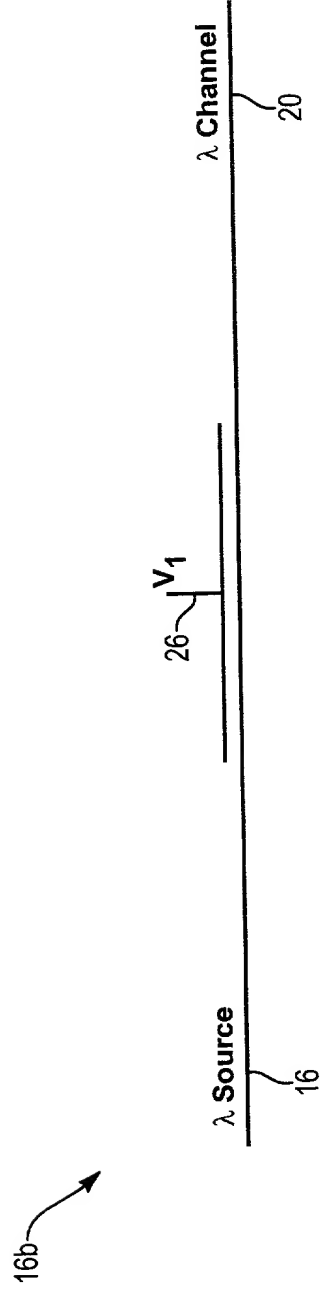


FIG. 6

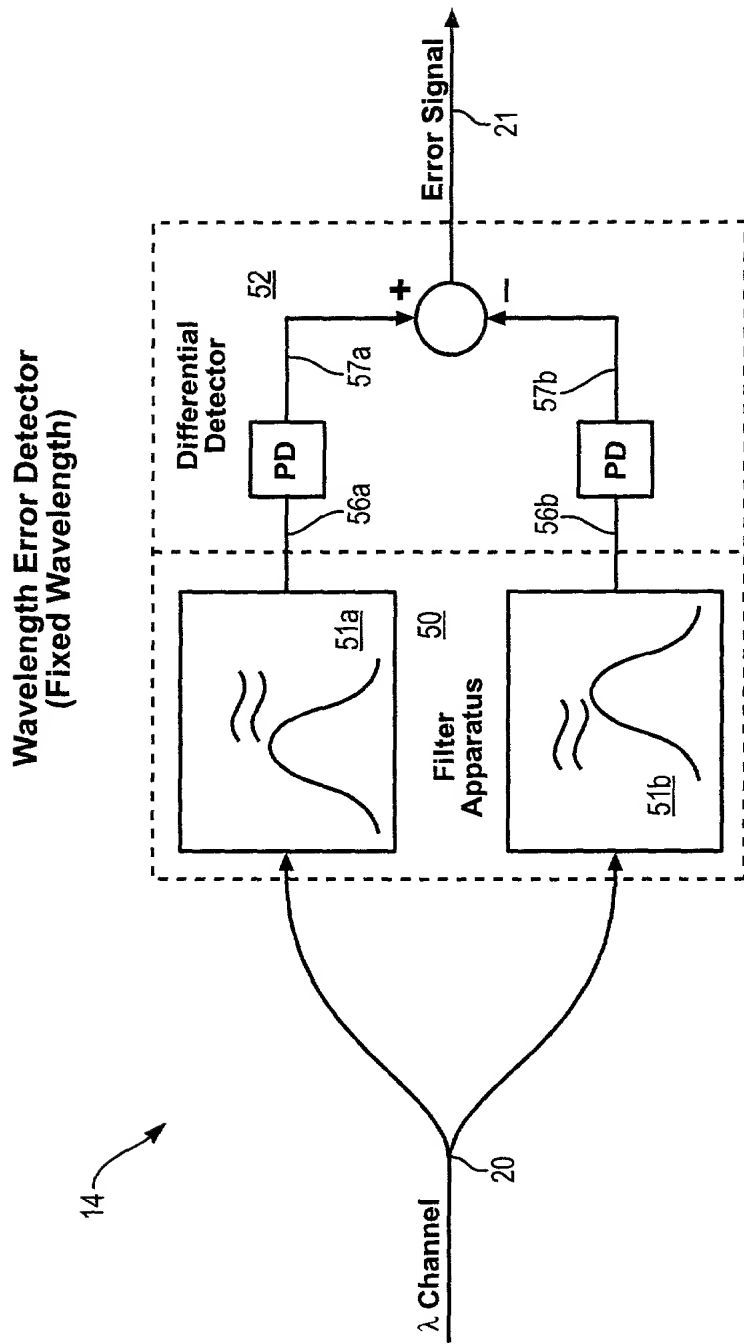


FIG. 8

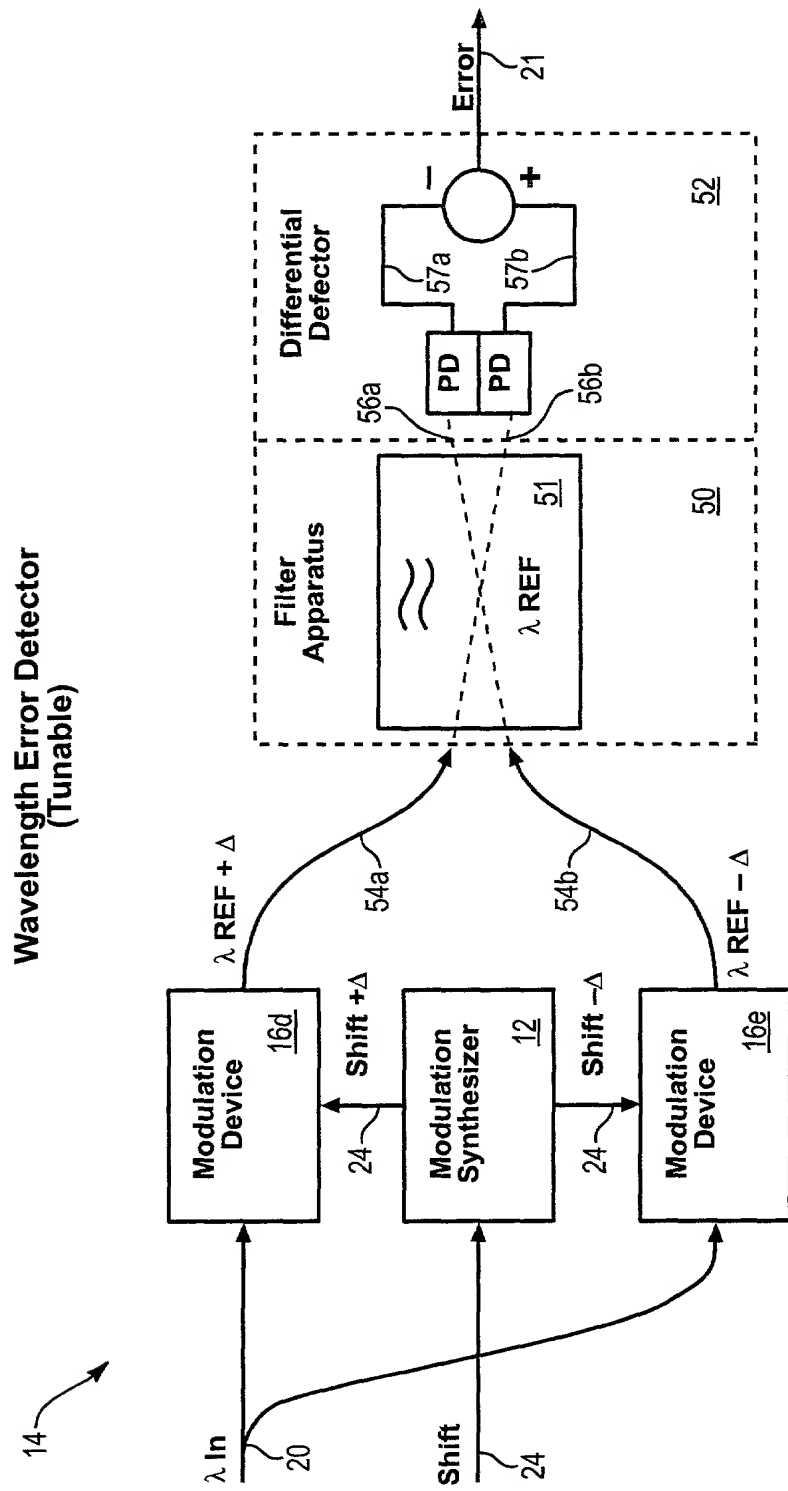


FIG. 9

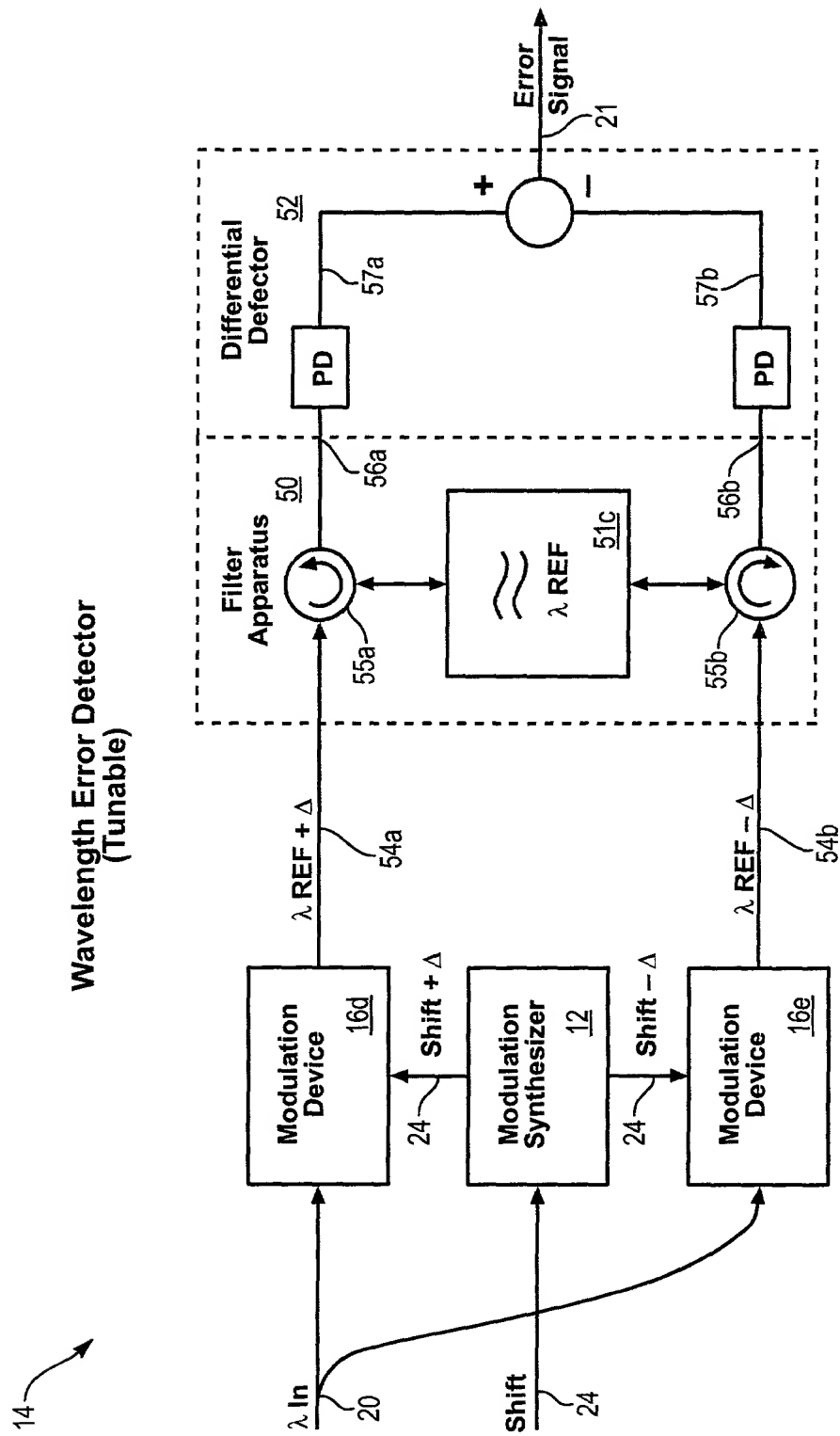


FIG. 10

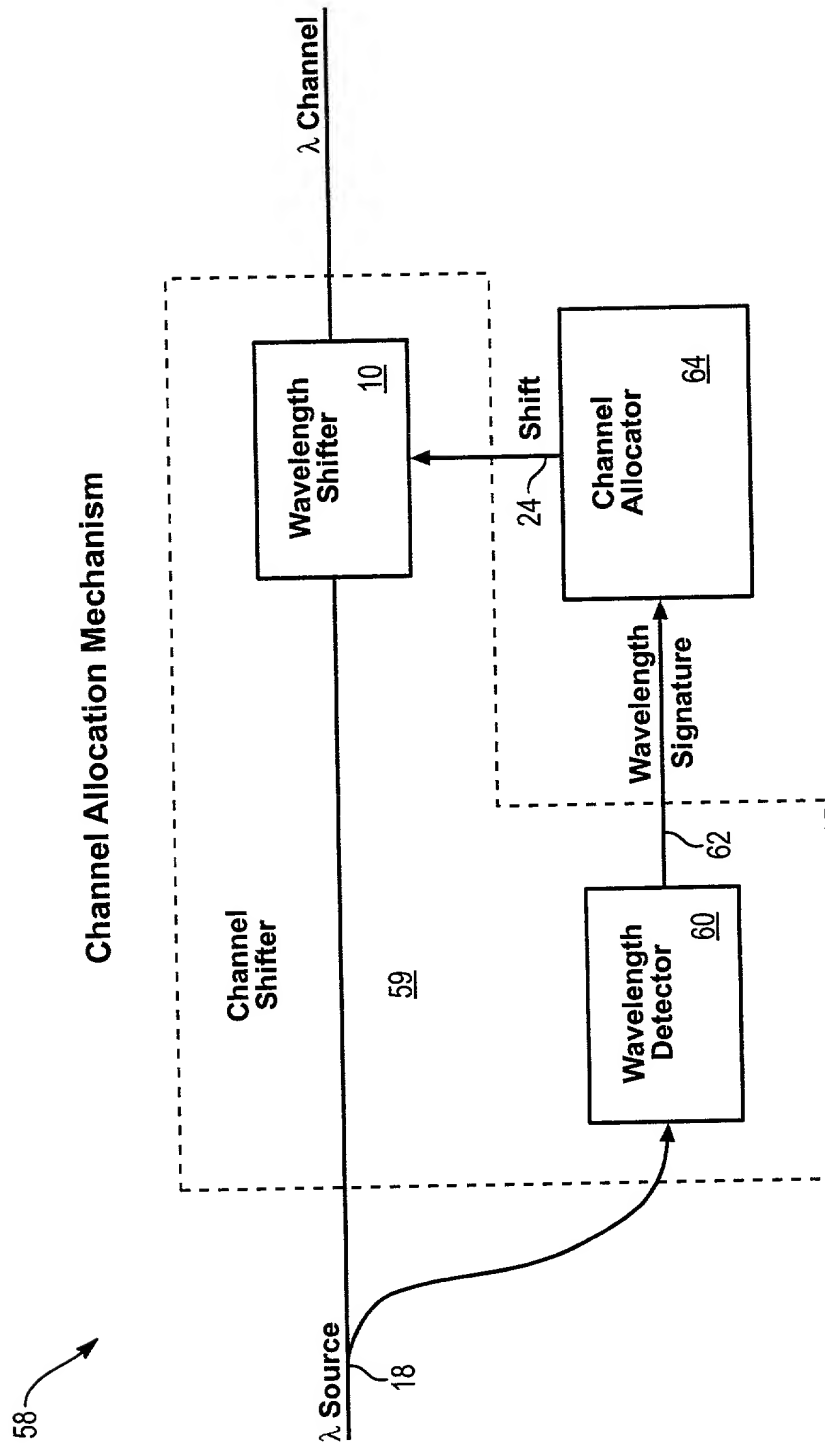


FIG. 11

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Tunable Wavelength Stabilized Transmitter

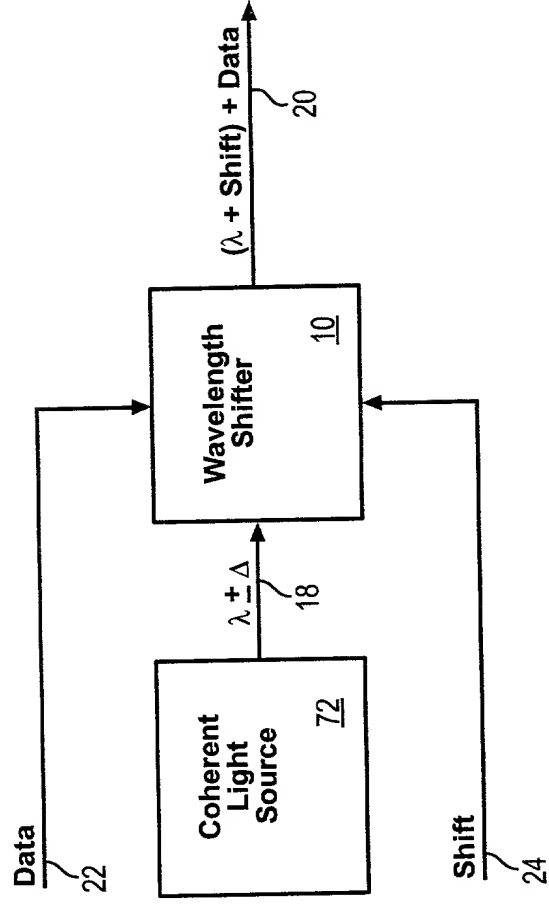


FIG. 12

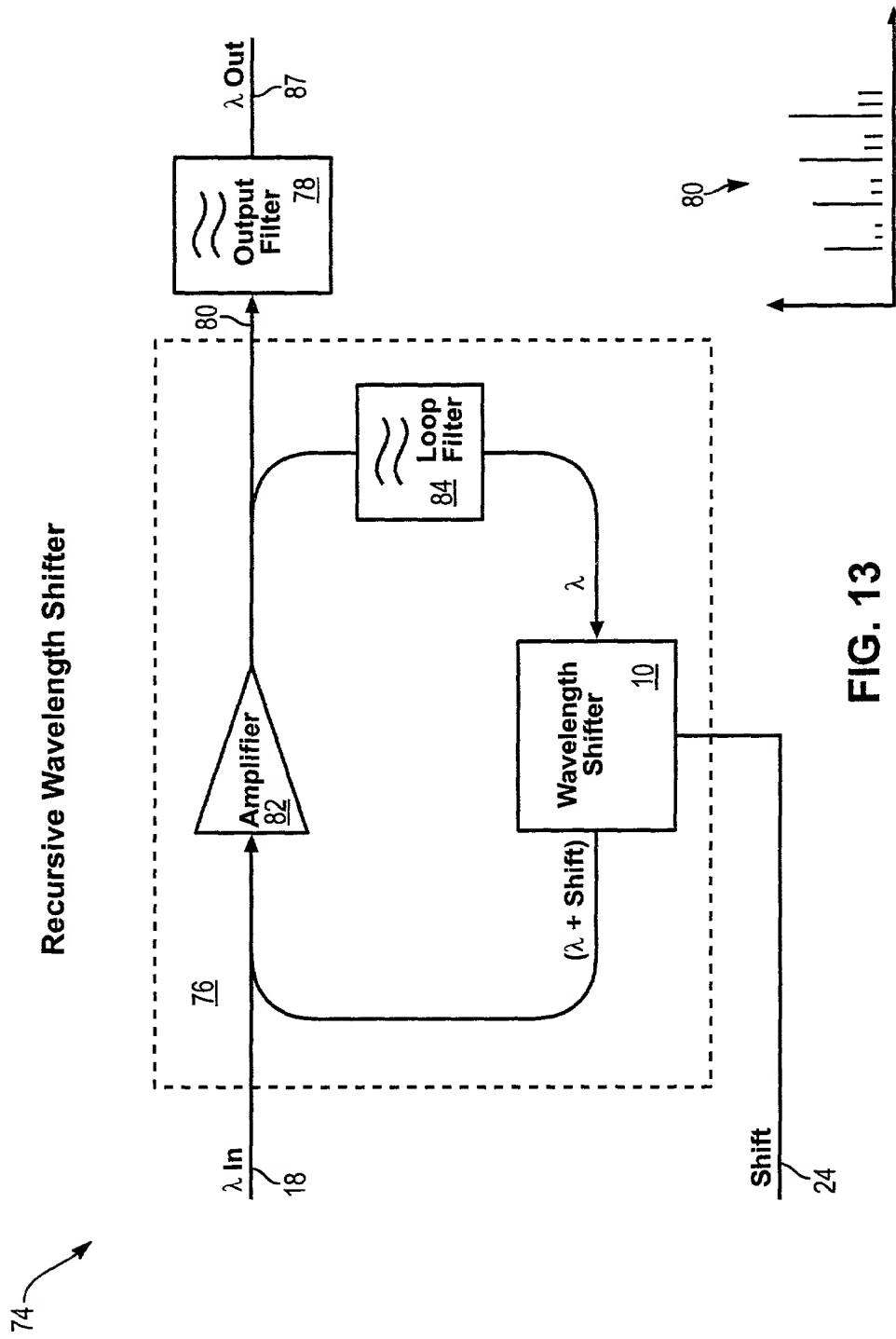


FIG. 13

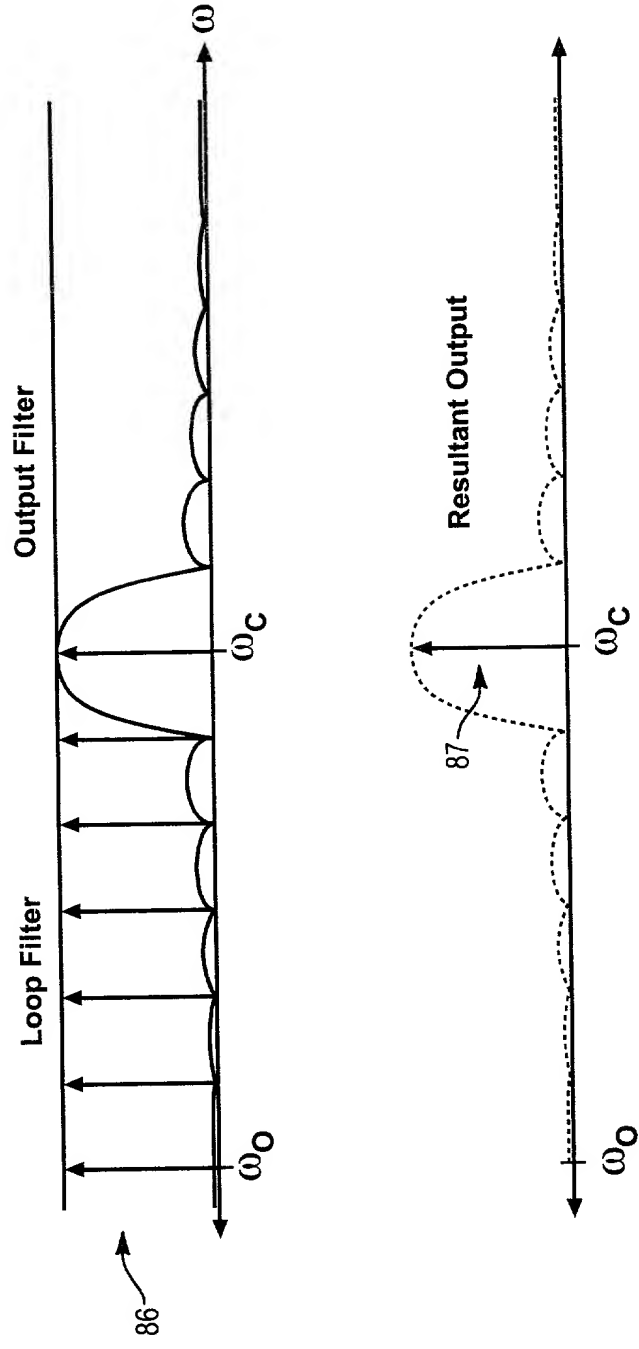


FIG. 14

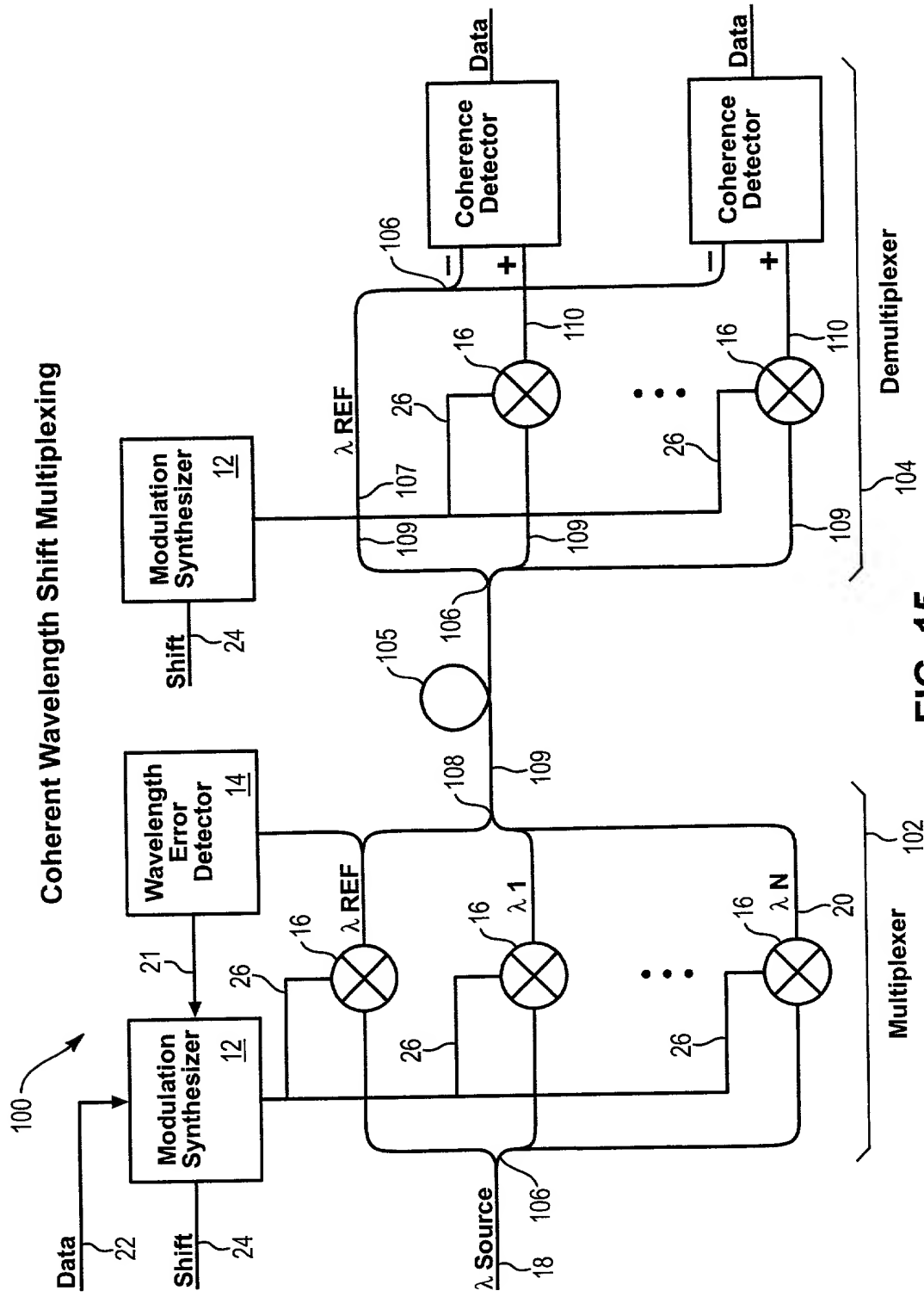


FIG. 15

Full-Duplex Photonic Signals

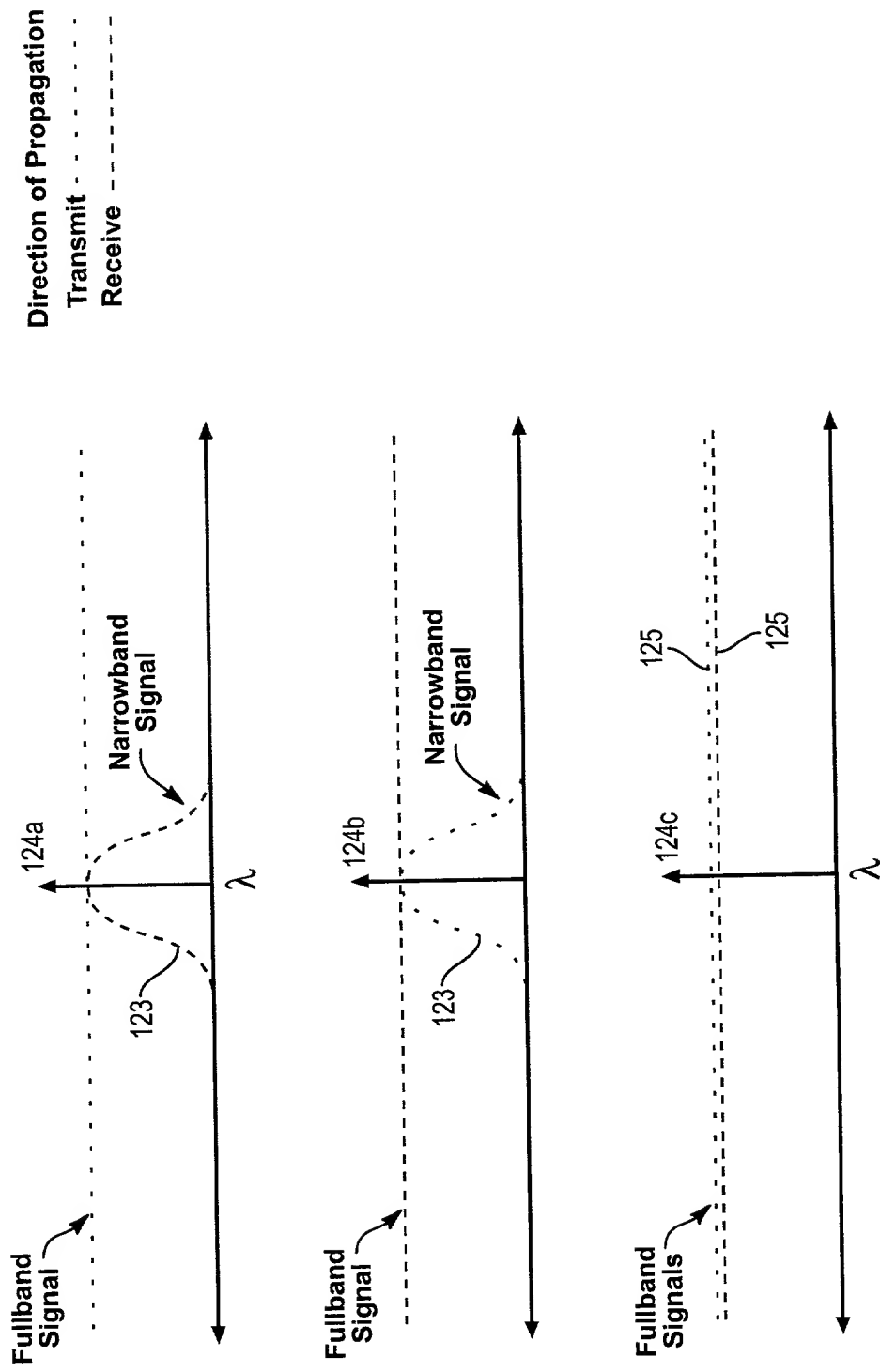


FIG. 16

Wavelength-Shifting Transceivers

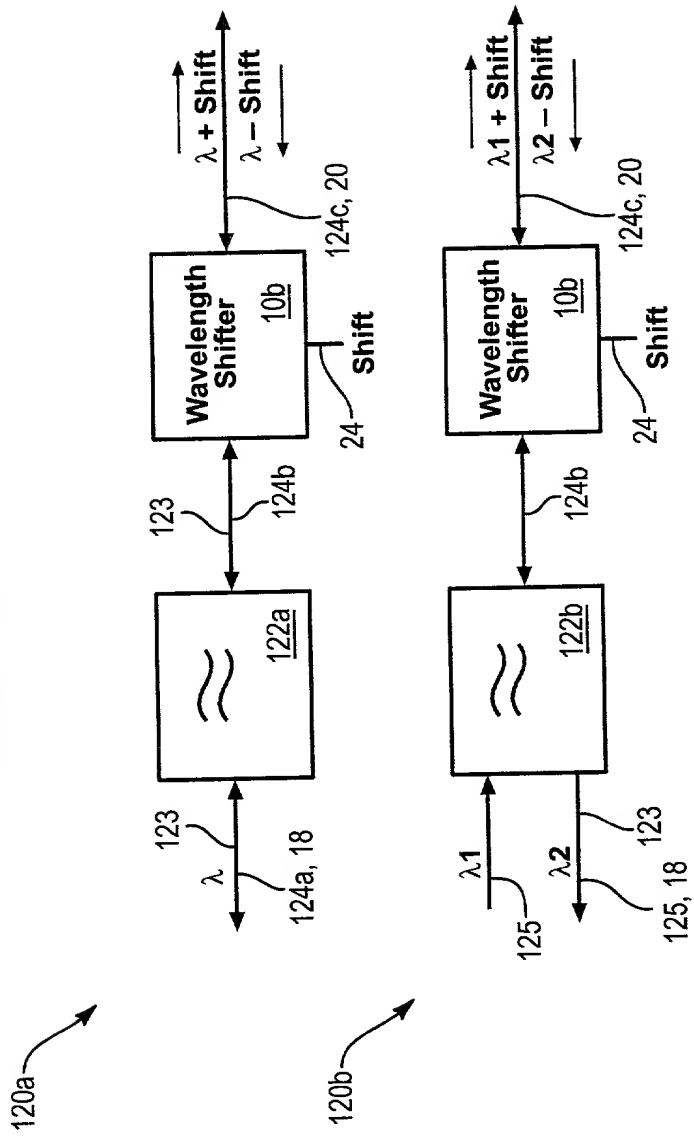


FIG. 17

Full-Duplex Narrowband Filters

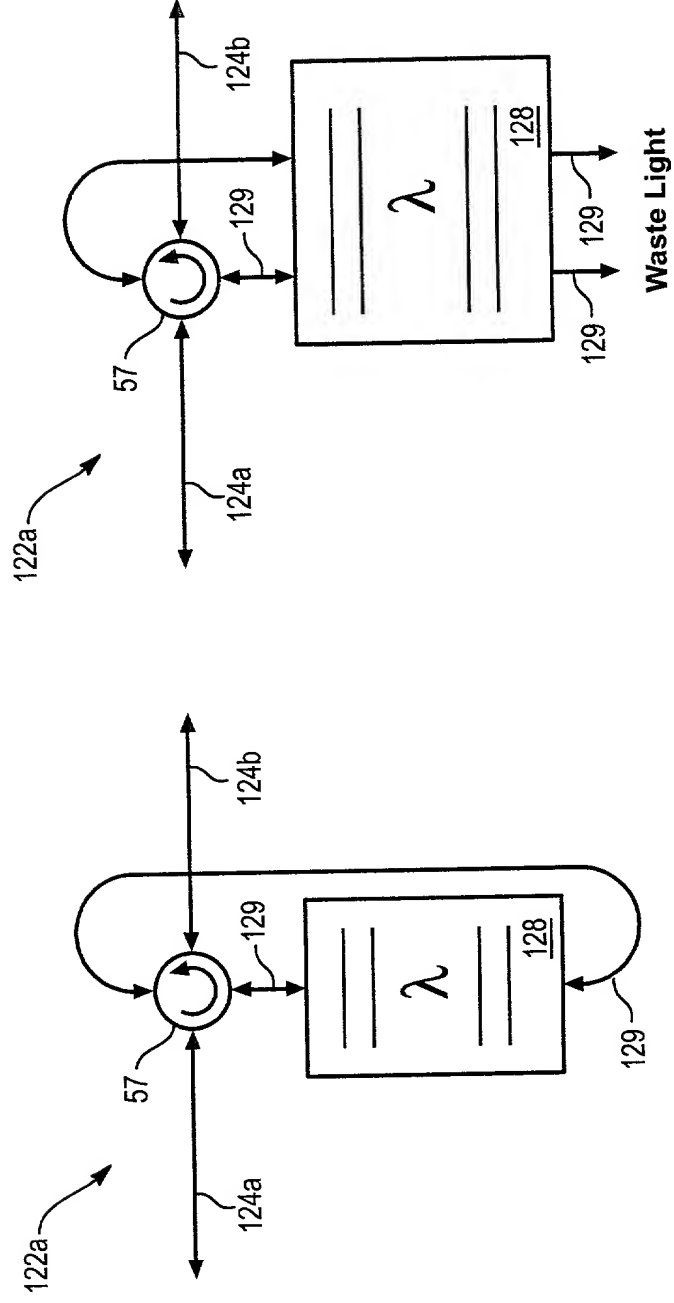


FIG. 18a

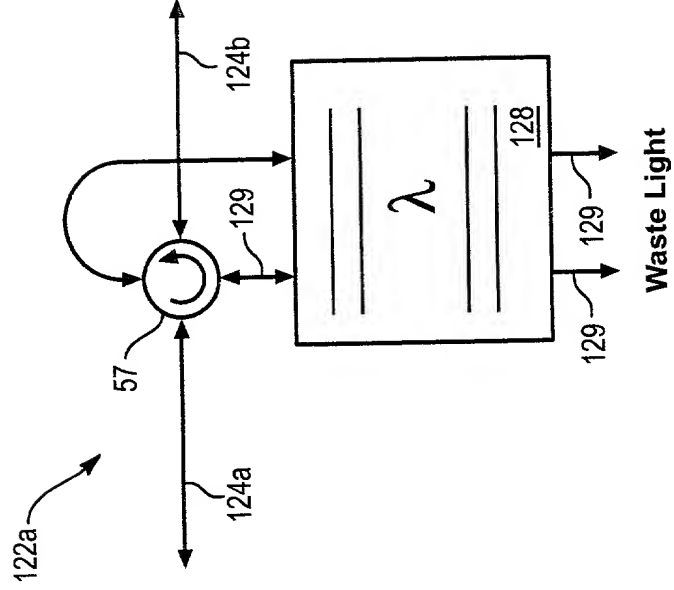


FIG. 18b

Pseudo Full-Duplex Narrowband Filter

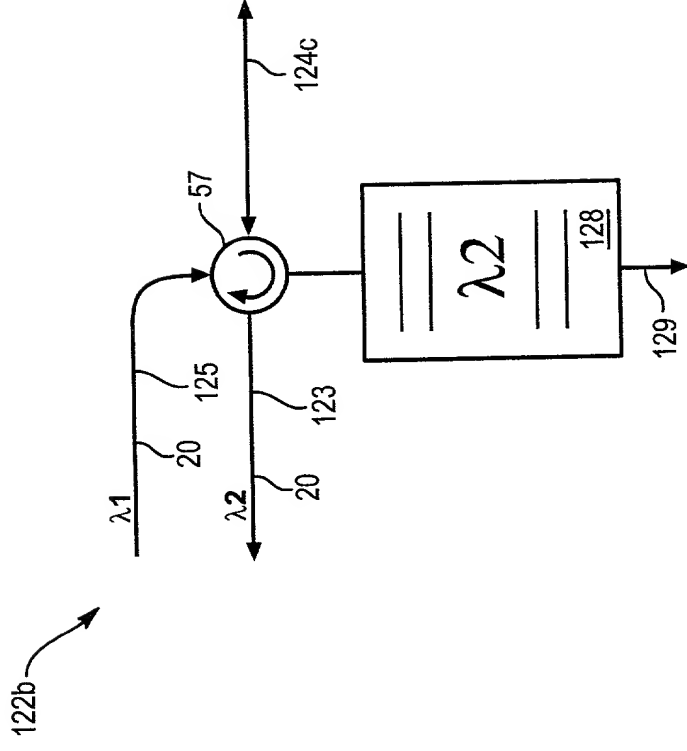
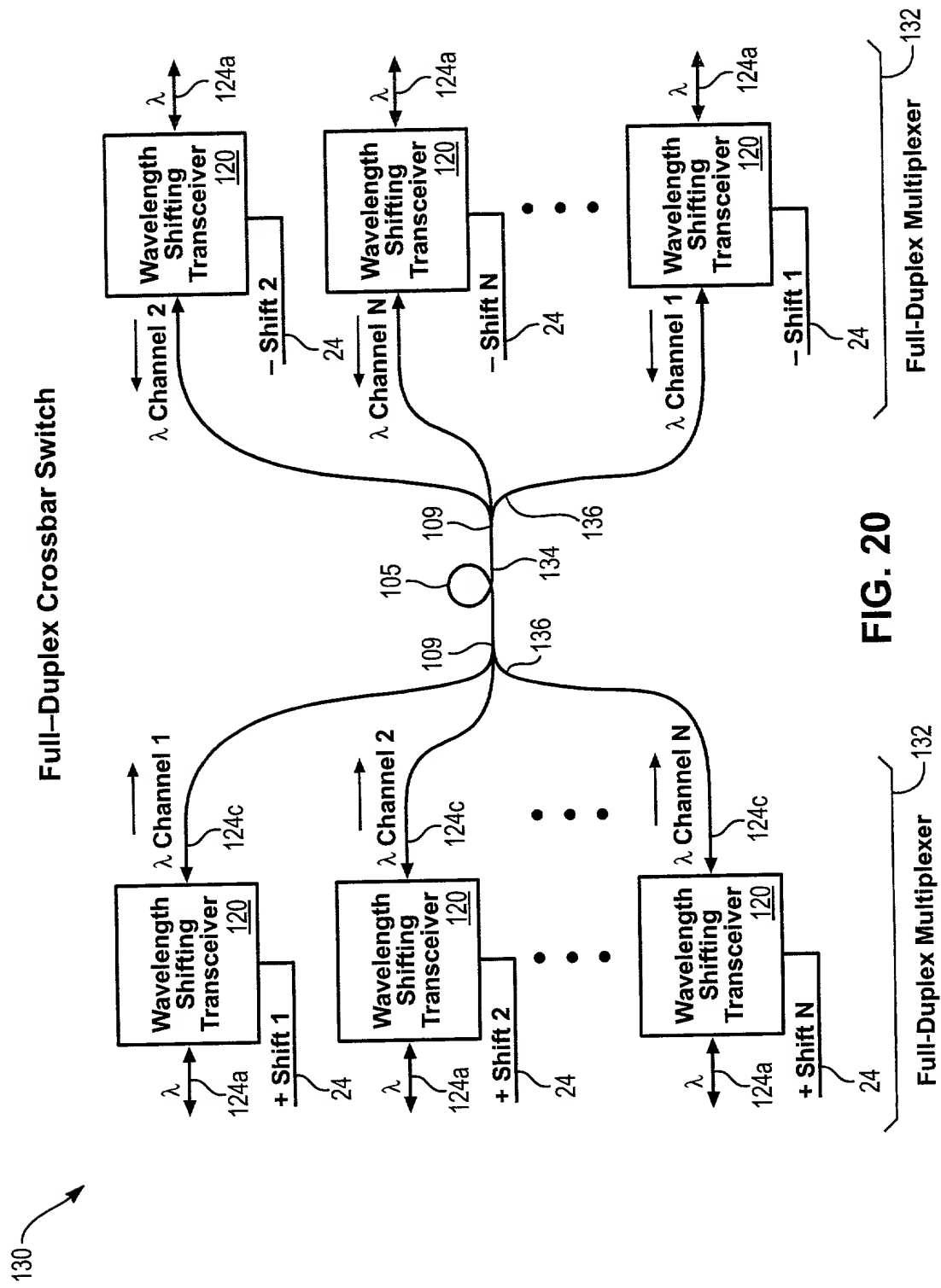


FIG. 19



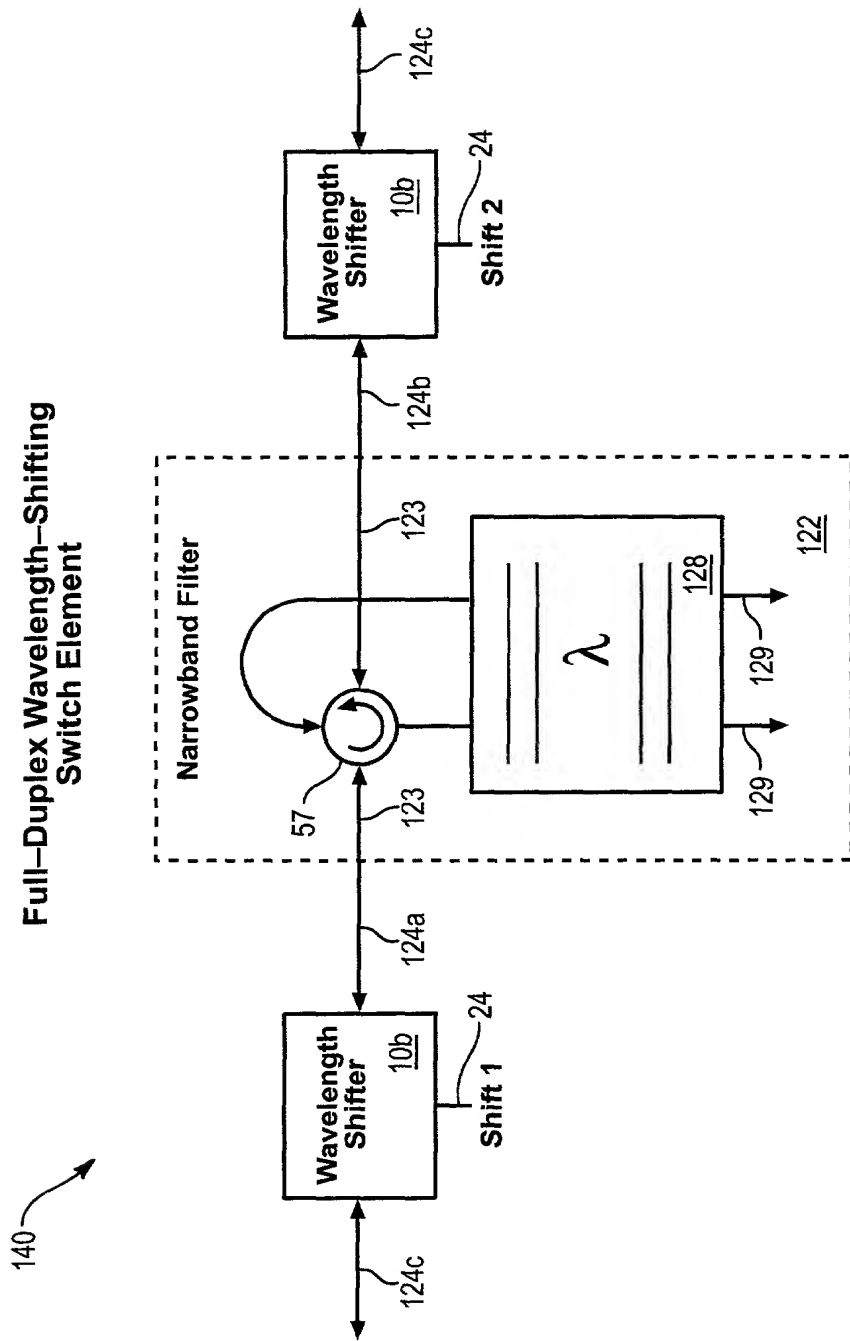


FIG. 21

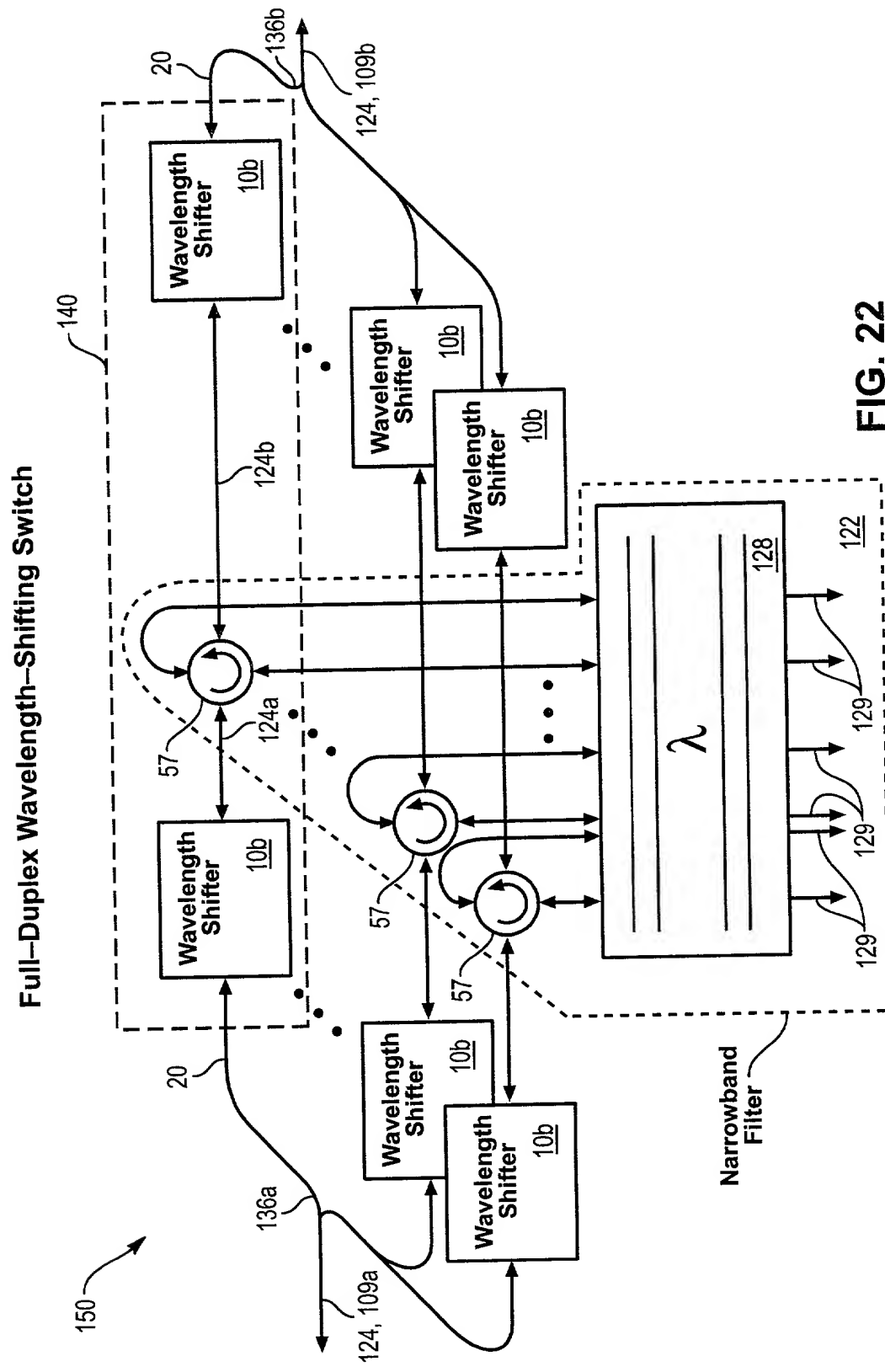


FIG. 22

160

Replicated-Spectrum Transceiver

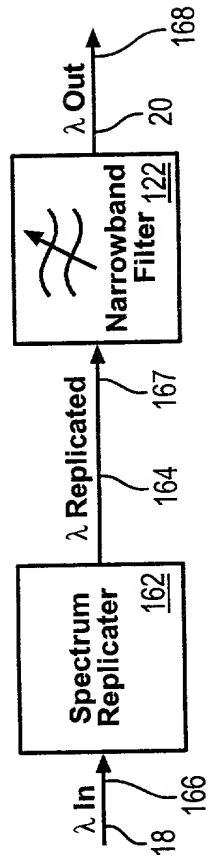


FIG. 23

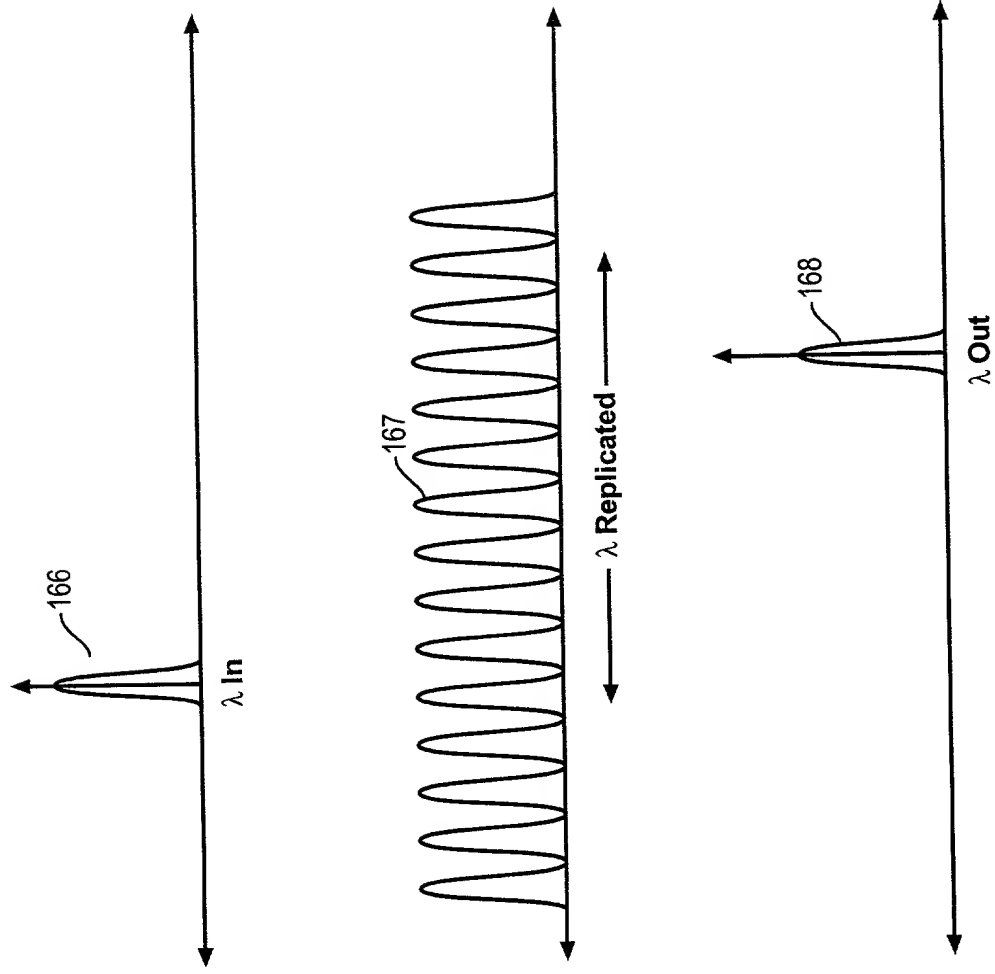


FIG. 24

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Wavelength-Shifting Replicator

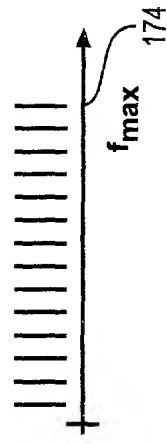
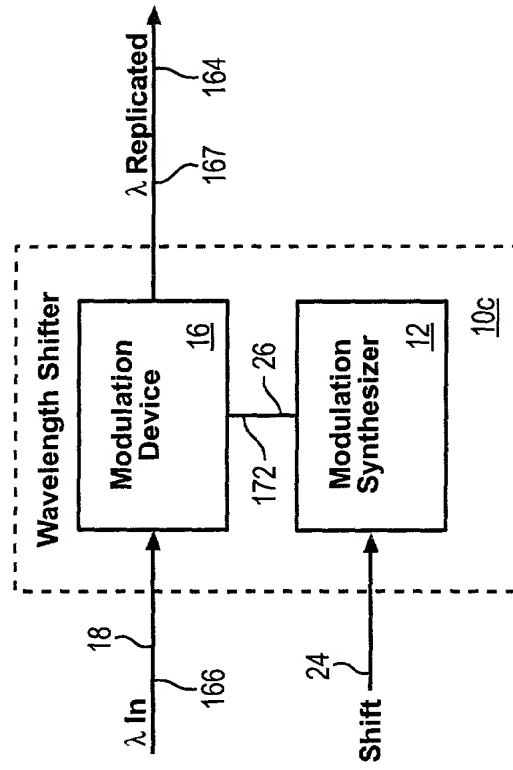


FIG. 25

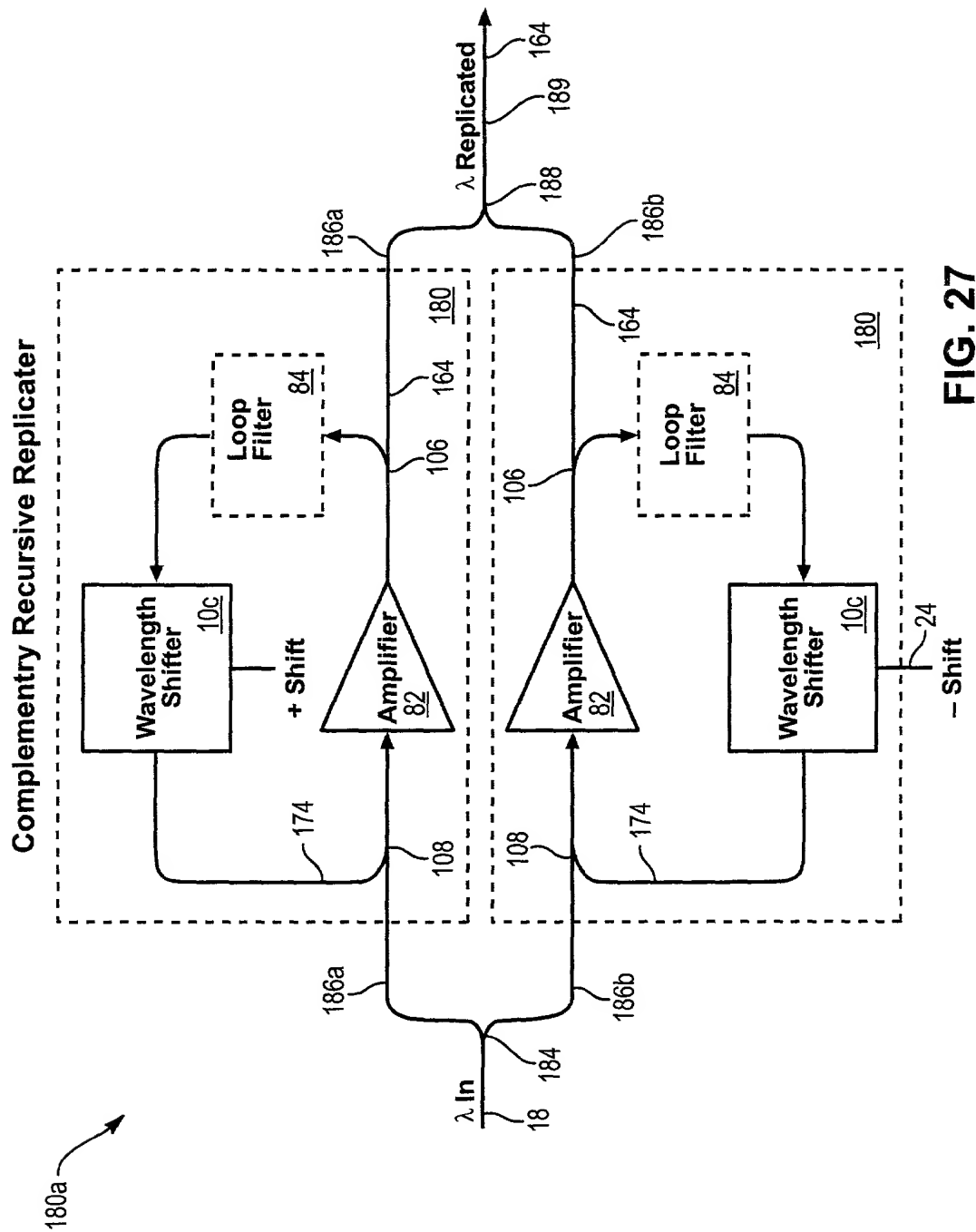


FIG. 27

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Four-Wave-Mixing Replicator

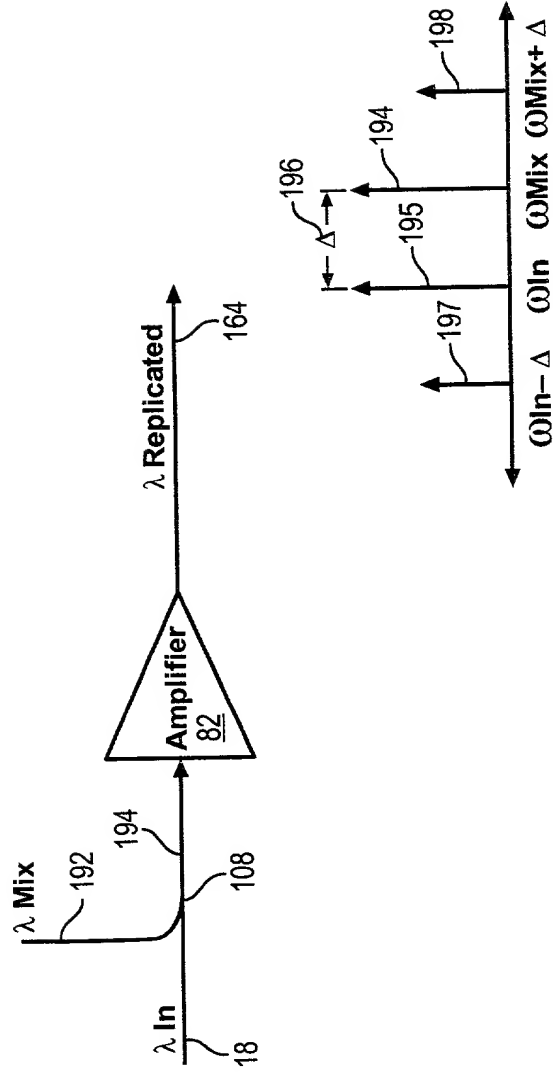


FIG. 28

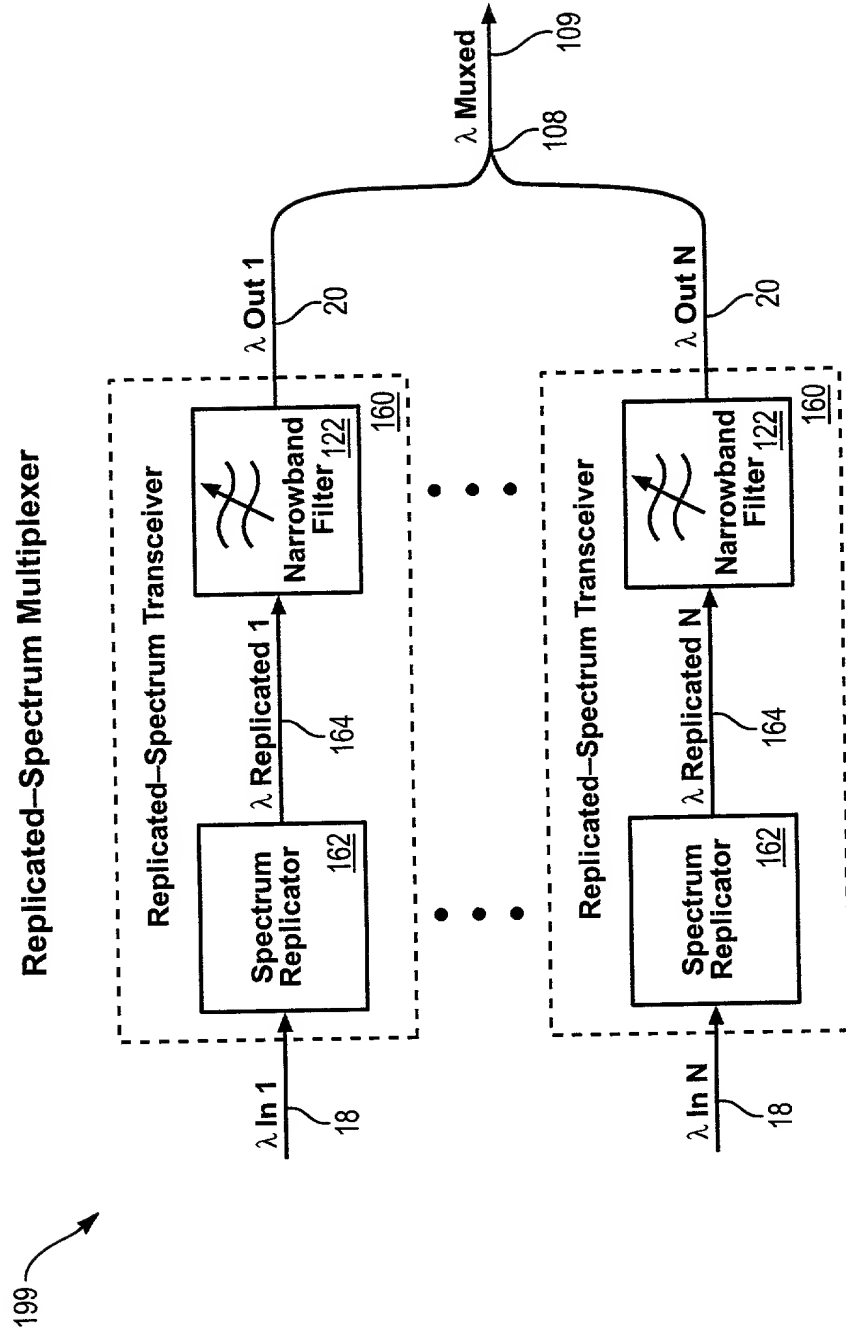


FIG. 29

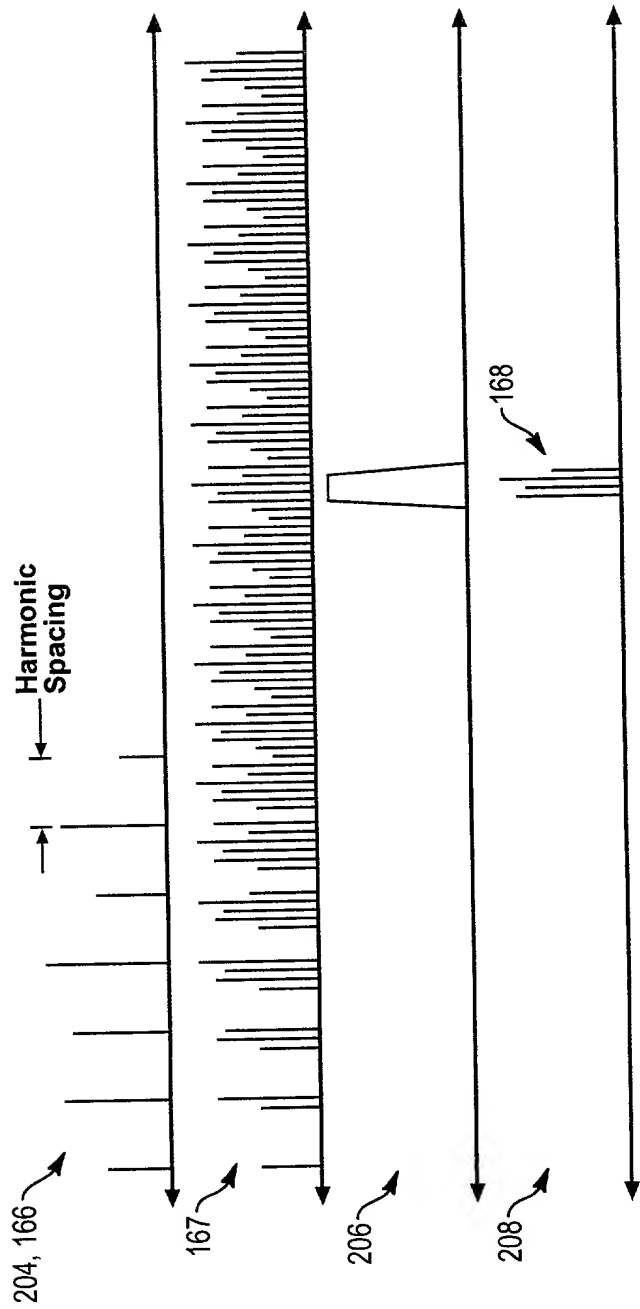
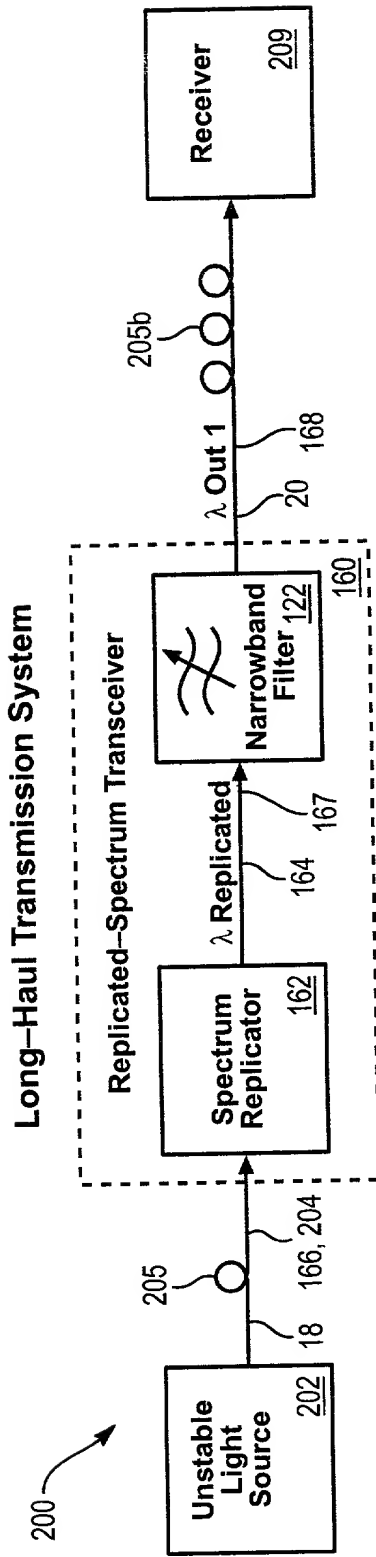


FIG. 30

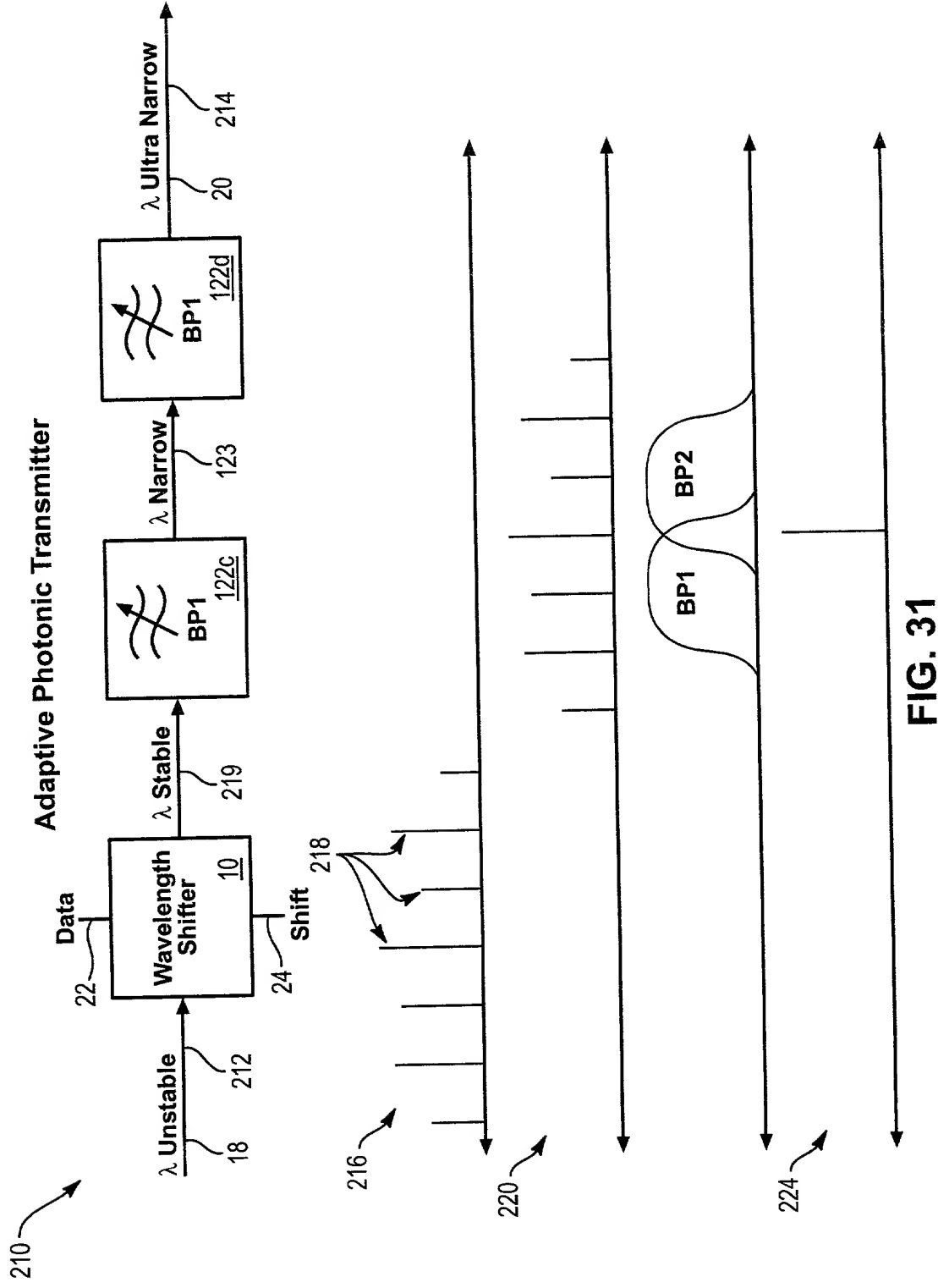


FIG. 31

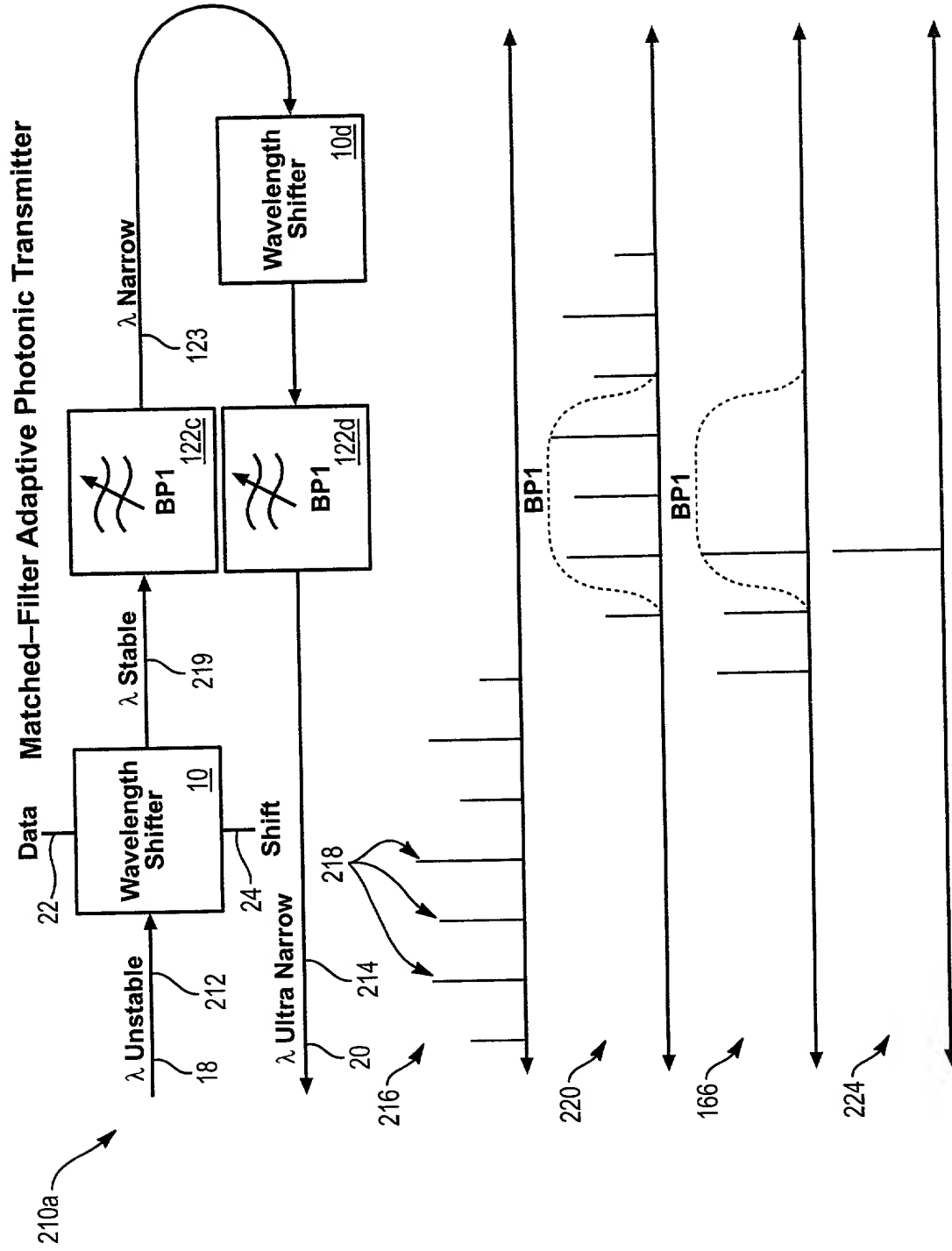


FIG. 32